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APPLICATION NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,822 12/13/2001	Mitsuo Osada	Q67726	6202
23373 7590 12/05/2003		EXAMI	NER
SUGHRUE MION, PLLC		LAVILLA, MICHAEL E	
2100 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20037		. ART UNIT	PAPER NUMBER
		1775	
		DATE MAILED: 12/05/2003	
			. <i>X</i>

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/009,822	OSADA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Michael La Villa	1775		
The MAILING DATE of this communical Period for Reply	tion appears on the cover sheet v	vith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAL. - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communical. If the period for reply specified above is less than thirty (30) decrease. If NO period for reply is specified above, the maximum statutes are reply within the set or extended period for reply will. - Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. FOR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of the corp period will apply and will expire SIX (6) MC, by statute, cause the application to become a	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).		
1) Responsive to communication(s) filed	on <u>03 September 2003</u> .	•		
2a)⊠ This action is FINAL . 2b)[This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) Claim(s) 1-14 is/are pending in the application.				
4a) Of the above claim(s) <u>1-6,13 and 1-</u>	4 is/are withdrawn from consider	ation.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>7-12</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction	on and/or election requirement.			
Application Papers				
9) The specification is objected to by the Examiner.				
10)⊠ The drawing(s) filed on <u>13 December 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120				
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the Internationa * See the attached detailed Office action of the since a specific reference was included in 37 CFR 1.78. a) The translation of the foreign languated in the first senter reference was included in the first senter	ocuments have been received. Ocuments have been received in the priority documents have been all Bureau (PCT Rule 17.2(a)). For a list of the certified copies not domestic priority under 35 U.S.C in the first sentence of the specificage provisional application has domestic priority under 35 U.S.C	Application No n received in this National Stage of received. c. § 119(e) (to a provisional application) ication or in an Application Data Sheet. been received. c. §§ 120 and/or 121 since a specific		
Attachment(s)	_			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449) Paper	0-948) 5) Notice o	Summary (PTO-413) Paper No(s). <u>7</u> Informal Patent Application (PTO-152)		

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DETAILED ACTION

Election/Restrictions

- Applicant's election without traverse of Group II, Claims 7-12, in Paper No. 6 is acknowledged.
- 2. The requirement is still deemed proper and is therefore made FINAL.
- 3. Applicant's remarks indicate that applicant has cancelled the non-elected claims. However, designating the non-elected claims as "withdrawn" does not cancel the claims. Such designation merely indicates that the claims are not currently being examined.

Claim Objections

4. Claim 10 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Regarding Claim 10, it appears that the claimed thermal expansion coefficient value that is to be obtained in the range not higher than 400 degrees centigrade is not further limiting of the independent Claim 7 requirement of obtaining the same thermal expansion coefficient value over the range of 30 to 800 degrees centigrade.

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Specification

5. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The portion of the title directed to subject matter that is not claimed should be deleted.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 7. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 7-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - I. Regarding Claims 7, 8, 11, and 12, it is unclear whether the claims require that the claimed coefficient of linear expansion must be obtained throughout the claimed temperature range of 30-800°C. In the Interview on 24 November 2003, applicant explained that the designated coefficient reflected an average value of the coefficient over the range of 30 to 800 degrees centigrade. It was explained that the coefficient obtains its highest value at 30 degrees centigrade and decreases continuously to 800 degrees centigrade. This explanation may not be consistent with the language used in characterizing the invention. Moreover, applicant was not certain that this explanation was complete. Applicant's remarks in the Response filed on 3

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September 2003 do not appear to render the terminology definite.

Hence, absent further clarification, the rejection is maintained.

II. Regarding Claim 8, it is unclear whether the claimed "60% or more" working rate could not be achieved after the previously described 50% working rate during each rolling in two intersection directions. In the Interview on 24 November 2003, applicant explained that "60%" should read "75%". An amendment to this effect, were it to be entered in the claims and Specification, would render the claim definite. However, it is pointed out that this argument is inconsistent with the argument put forth in the Response filed on 3 September 2003. Absent further clarification, the rejection is maintained.

Response to Amendment

- III. In view of applicant's arguments and amendments, the claim objections of the Office Action mailed on 4 June 2003 are withdrawn.
- IV. In view of applicant's arguments and amendments, the section 112, second paragraph rejections of the Office Action mailed on 4 June 2003 are withdrawn except for those repeated above for the reasons provided above.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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- 10. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number is (703) 308-4428. The examiner can normally be reached on Monday through Friday.
- 12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (703) 308-3822. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9310.

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13. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Michael La Villa November 28, 2003 Livell